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INFORMATION REPORT

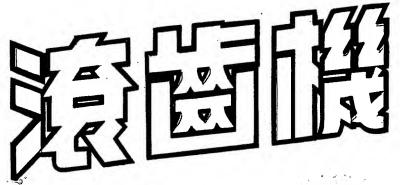
INFORMATION REPORT

### CENTRAL INTELLIGENCE AGENCY

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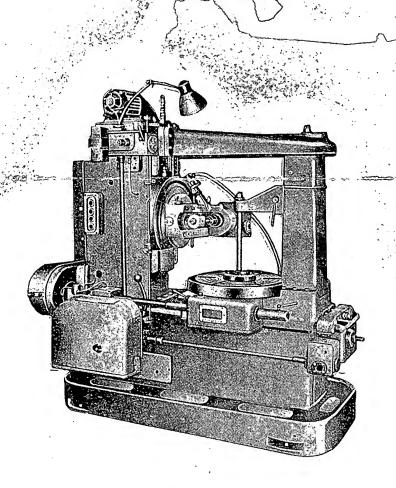
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GEAR HOBBING MACHINE

MODEL J375



## 中國機械進口公司 CHINA NATIONAL MACHINERY IMPORT CORPORATION

IMPORTERS & EXPORTERS

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

CABLE ADD: "MACHIMPORT" PEKING

### GEAR HOBBING MACHINE

### MODEL J375

This machine is suitable for hobbing the spur, helical gears, and worm wheels. It is fitted with hob for cutting operations on the generating principle.

Speeds of cutter spindle, feeds of cutter or working table, continuous indexing of gear train, and the differential mechanism are all regulated through the change gears.

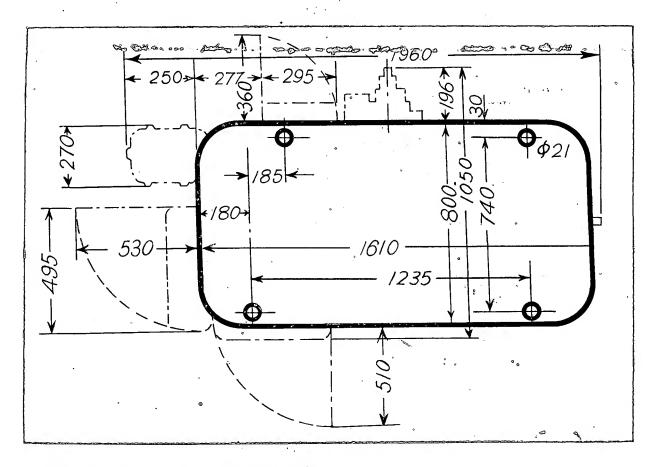
The spindle can revolve either in normal or reversed direction.

The feeds of the tool slide and the working table can be operated by hand.

The machine can be employed for cutting of internal gears by using a special attachment. Two electric motors are provided for this machine.

### Max. module: Normal cutting Low speed cutting ... ... ... ... ... ... ... Max. outside diameter of spur gear ... Max. outside diameter of helical gear: 30° At angle ... ... ... ... At angle 60° ... ... ... ... ... ... ... 190 mm. Max. height to be cut ... ... ... ... Distance between centre lines of the working table and cutter: Minimum... ... ... 30 mm. Maximum 480 mm. Distance between surface of the working table to the cutter spindle centre line: Minimum... Diameter of working table ... ... ... ... ... ... ... ... 580 mm. Max. traverse of working table (hand)... ... ... ... 450 mm. Max. size of the hob (Dia. $\times$ L)... ... ... ... ... ... ... 120 x 130 mm. Max. vertical movement of tool slide (power or manual)... ... 250 mm. Distance between center-line of cutter to guide of tool slide 218 mm. Max. swivel angle of tool slide ... ... ... ... ... 360° Taper in spindle bore ... ... ... ... ... ... ... Morse No. 4

Cutter spindle speed	··· ···	 •••	•••	47, 58, 72, 87, 100, 122, 150 rpm.
Feed per revolution of working table:				
Ноь		 	•••	O.25-4 mm.
Working table	·	 		0.105 - 1.68 mm.
Motors: 3-phase, A.C.				
for main drive:	Power	 		3.2 KW.
	Speed	 		1440 rpm.
for rapid traverse of tool slide:	Power	 		i KW.
·	Speed	 		1410 rpm.
for coolant pump:	Power	 		0.125 KW.
	Speed	 		2800 rpm.
Overall dimension (L x W x H)		 		1885 x 1160 x 1950 mm.
Net weight		 		2500 kg.



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

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#### BRANCHES

TIENTSIN OFFICE 171 Chien Shien Road (Ho Si District)

Cable Address: MACHIMPORT' Tientsin

SHANGHAI OFFICE: 27 Chung Shan Road El

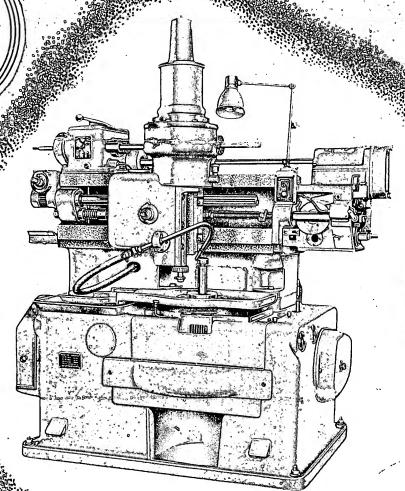
Cable Address: MACHIMPORT Shanghai

CANTON OFFICE. No. 2 West Bund Road, Canton

Cable Address: MACHINERY Canton

# 插廊机 SPUR GEAR Skaping MACHINE

MODEL **J-546** 



## 中國機械追口公司 CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT - EXPORT)

ER-LI-KOW, SHIHE-CHIAO, PEKING CHINA

CABLE ADDRESS: MACHIMPORT" PEKING

### SPUR GEAR SHAPING MACHINE

### Model J546

This machine is used for shaping internal and external spur and helical gears.

The machine works on the generating principle of workpiece and cutter rolling together. It can be employed to cut helical gears when a special copying guide is fitted on the spindle of this machine.

This machine can also be used to cut gears such as stepcone gears, gears with shoulder, etc., which provide very little recess for the run out of cutter during cutting.

The number of reciprocating strokes and circular feeds of cutter are regulated by the gear box and the feeding box respectively. The indexing mechanism is controlled by means of change gears. The stroke of cutter can be adjusted by changing the position of set pin on the crank mechanism.

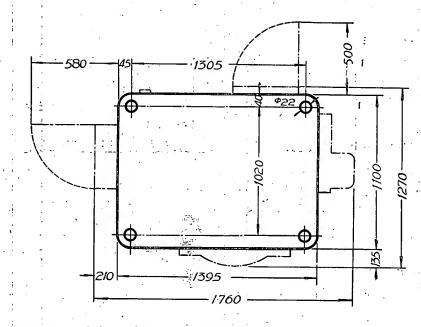
The teeth of the gear may be shaped by cutter in one, two, or three strokes. The number of strokes and the feeding rate of first, second, and third stroke are controlled by means of a special mechanism.

The directions of rotation of the cutter spindle and the working table are independent of each other.

### SPECIFICATION

Min. and Max. module	2-6
Min. and Max. outside diameter of spur gear 20-46	
Max. outside diameter of helical gear	;
(spiral angle 23°)	32 mm.
Max. outside diameter of internal gear	0 mm.
Max. face width of gear:	
External 10	5 mm.
T . 1	'5 mm.
Max. helix angle for helical gear	23°
Max. pitch diameter of gear:	i i i i
External	0 mm.
Internal (when cutter of 100 mm. dia. is used)	0 mm.
Max. distance between centres of work and cutter :	0 mm.

Diameter of working table	
Max. stroke of slide	
Min. and Max. distance between working	
table and lower face of cutter head 35-160 mm.	
Max. longitudinal traverse of the cutter saddle 510 mm.	
Traverse of the cutter saddle per one division of the scale during adjustment	
of the cutting depth of the cutter 0.02 mm.	
Pitch diameter of the gear cutter	
No. of strokes of the cutter per minute 125, 172, 253, 359	
Circular feed of cutter per stroke 0.17; 0.21; 0.24; 0.30; 0.35; 0.44 mm/stroke of cutter.	
Average radial feed of cutter per stroke 0.024; 0.048; 0.096 mm/stroke.  Motors: 3-phase, A.C.	
Main drive motor: Power 2.8 KW.	
Speed 1440 rpm.	
Motor for rapid revolving of table: Power 0.5 KW.	
Speed 1410, rpm.	_
Coolant pump: Power 0.125 KW.	
Speed 2800 rpm.	
Overall dimension (L x W x H)	



N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

### BRANCHES

TIENTSIN OFFICE: ° 17.1 Chien Shien Road (Ho Si District) °

Cable Address: MACHIMPORT Tientsin

SHANGHAI OFFICE: 27 Chung Shan Road E1

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CANTON OFFICE: No. 2, West Bund Road, Canton

Cable Address: MACHINERY Canton

